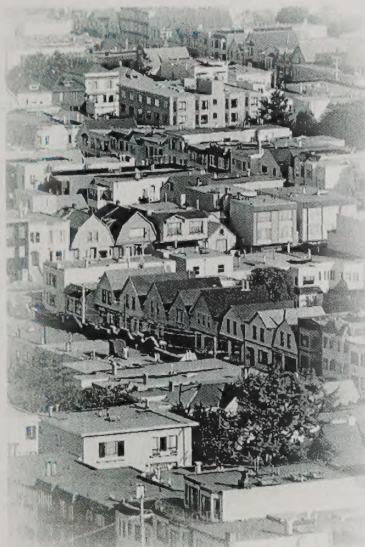


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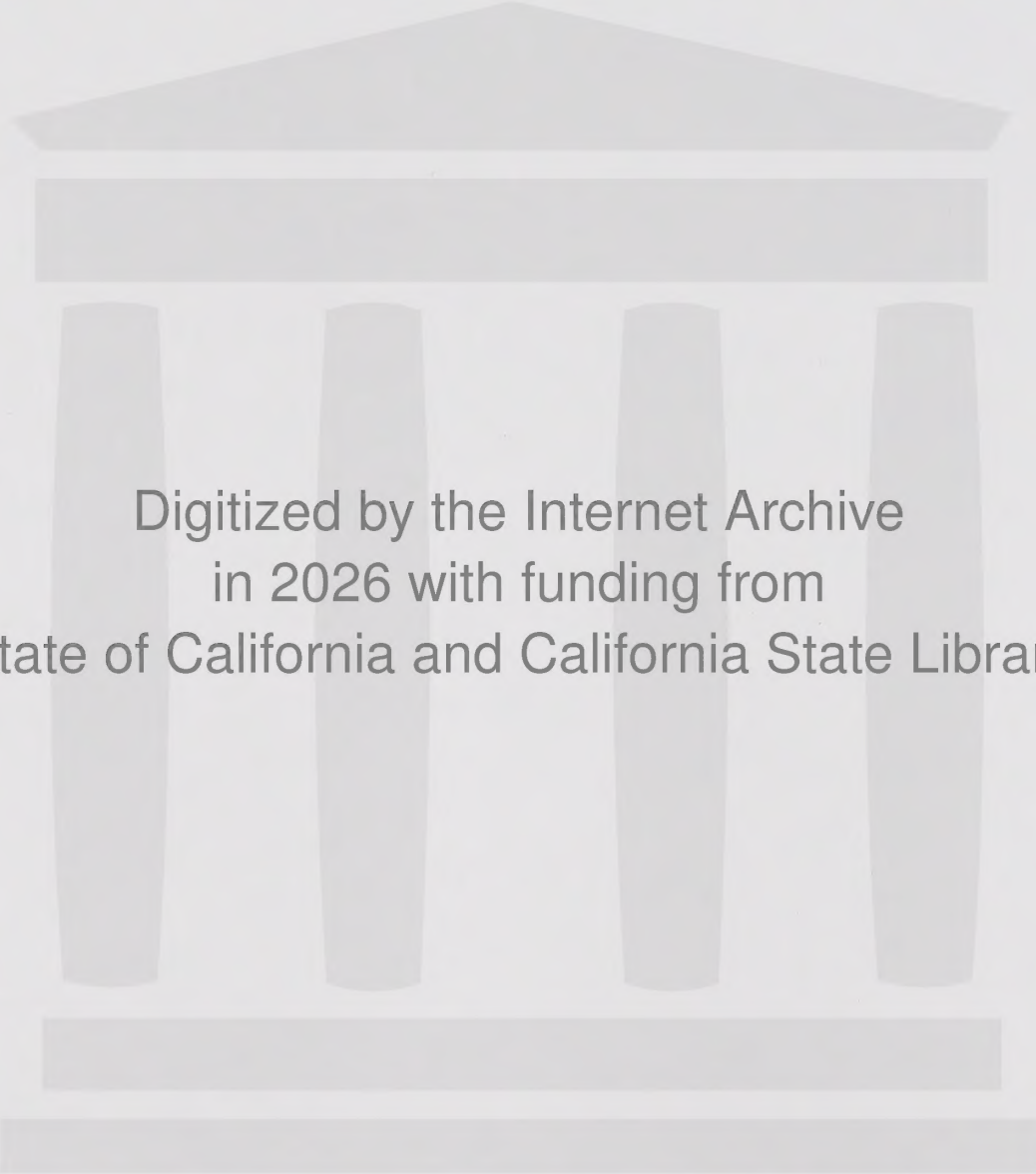
Data for Bay Area Counties



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Existing Land Use in 2000: Data for Bay Area Counties

December 2002

ASSOCIATION OF BAY AREA GOVERNMENTS

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INTRODUCTION

Knowledge about existing land use and land cover is important for a number of different planning functions, including:

- ◆ estimating potential for future urban development and redevelopment;
- ◆ environmental quality analysis (such as surface runoff, wetlands inventories and air quality analyses); and
- ◆ hazard impact work (such as the impact of wildland fires, various toxic gas releases or a major earthquake).

Similarly, knowledge of land use change is important because it can aid in visualizing urban development patterns and their implications.

LAND USE PATTERNS AND LAND USE CHANGE

The changes in land use that have occurred in the Bay Area in the last ten years, or even since the end of World War II, suggest that land use changes vary in type and in extent depending on the regional context. While urban context does not necessarily describe the causes of land use change, context can nonetheless describe a pattern for land use change and a better understanding of some general trends in the urban evolution of the Bay Area. It has become apparent as ABAG has tracked land use change from 1985-2000 that the type of land use change and the scale of that change vary depending on the geographical location within the overall urban Bay Area region. There are particular conditions that might induce a land use change at the local scale, such as the existence of a freeway interchange or the redevelopment of an urban area following a natural disaster. However, in overall terms, the type and the extent of land use change is strongly related to its overall regional context.

Numerous studies of the trends in the urban evolution of the American City in the last fifty to one hundred years have been written.¹ The research on urban evolution that is specific to the San Francisco Bay Area, is more limited, but *Geography and Urban Evolution of the San Francisco Bay Area* (Vance, 1964) discusses the process of growth and change in the Bay Area. The book is unique in its socio-spatial-historical perspective. In this study, the urban Bay Area is spatially classified according to the era of development.

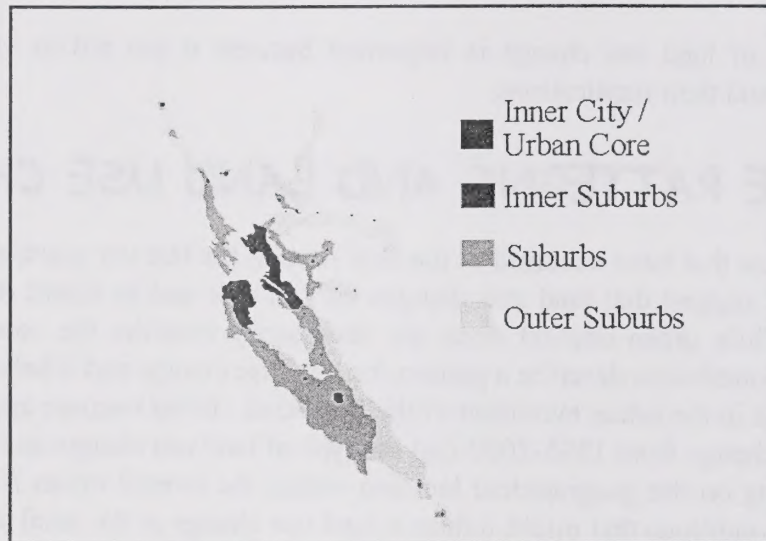
Based on the Vance study and on interpretations of the urban growth that has occurred since 1964, the urban Bay Area has been broadly classified according to the time period of development into:

- ◆ **inner cities or urban cores** (areas largely built out by 1900);
- ◆ **inner suburbs** (areas which developed between 1900 and 1940);
- ◆ **suburbs** (areas which developed between 1940 and 1980); and
- ◆ **outer suburbs** (areas which developed after 1980).

¹ Two books that discuss the process of growth and change of the American City stand out: *The Urban Wilderness: A History of the American City* (Warner, 1972) and *Crabgrass Frontier: The Suburbanization of the United States* (Jackson, 1985). In both these books, the American metropolis is looked at socio-spatially in terms of its development in time. Although the books do not specifically define different urban areas within the American metropolis according to the era of development, they do make reference to these zones and suggest their presence.

While this report suggests the presence of four distinct Spatial-Temporal Development Zones within the urban Bay Area, it is not the intent of this report to precisely define these different zones geographically. Figure 1 depicts these different zones in broad terms. It should be noted that within the suburb and outer suburb zones, there may or may not be small urban pockets that were developed before World War II; however, because of the broadness of this diagram, they are not shown.

Figure 1: Spatial-Temporal Development Diagram of the San Francisco Bay Area



Using this geographical classification, correlations between the type and extent of land use changes can be made both within a single zone and among multiple zones. Changes in inner city core areas typically consist of the redevelopment of industrial areas or the small-scale reuse of individual lots and buildings. Changes that occur at the fringes of the region, on the other hand, typically consist of the settlement of new residential areas on land previously used for agriculture or grazing. While there is a pattern of reuse and redevelopment within sections of inner city areas, there is a pattern of outward residential expansion in the peripheral areas of the region. Although specific contextual conditions might induce a land use change, the extent and the type of change is largely dependent on its context within the region at large.

INNER CITIES OR URBAN CORES

The Bay Area's inner cities constitute the historic core of the region and include the urban centers of Oakland and San Francisco. They were typically built out by 1900. The characteristic urban form of these areas is the street grid.

Land use changes within the urban core areas of the Bay Area during the last ten-to-fifteen years consist of redevelopment – either of industrial areas, or of small-scale individual lots and buildings. In either case, the change has generally resulted in some type of commercial development or mixed commercial-industrial development. In the East Bay, commercial development in some of Emeryville's industrial zones has resulted in land use changes of this type. Most recently, the closure of military bases is leading to extensive redevelopment in the

Alameda and Oakland areas. More residential is also being built. Some of those areas are now designated as non-military. Others are listed as closed military if the new use was not finalized until after 2000. With these exceptions and the construction of the Cypress Freeway in Oakland, land use changes tend to be limited to specific lots and specific buildings. While the closure of the Presidio military base in San Francisco had not yet occurred by 1995, turnover to the Golden Gate National Recreation Area had occurred by 2000.

INNER SUBURBS

The Bay Area's inner suburbs include those suburbs that developed after the turn of the century and before World War II. These areas typically developed around the streetcar and railroad systems, which were the main transportation networks for the Bay Area during this time period. Warner (1962) discusses the development of these inner suburbs along streetcar lines in Boston. Included within these zones are the residential areas surrounding the inner city as well as those communities that developed as the railroad system expanded beyond core areas during the teens and twenties.

Generally, the urban form of these areas continues to follow a grid pattern. Typically they consist of residential areas with commercial along arterial streets. Few land use changes were observed within these areas from 1985 to 2000. While infill development may have occurred within them, in general, they have maintained the land use pattern established originally. Within the East Bay, the development of housing and commercial-service-retail at the Richmond Marina is one example of the changes within inner suburbs in the last fifteen years. Interestingly, the section of Interstate 580 that leads to the Richmond-San Rafael Bridge (rushed to completion following the Loma Prieta earthquake) does not follow one of the street grids, for it was constructed on an old railway right-of-way.

SUBURBS

This classification refers to the large portions of the Bay Area that developed after World War II and before 1980. Referred to by Vance (1964) as "non-centric industrial and housing areas", most of the urban Bay Area falls within these areas. According to the 2000 Census, 85% of the Bay Area housing stock has been built since 1940. While suburbs include large and varied portions of the Bay Area, these areas developed around a newly expanding automobile transportation system. These areas are characterized by the prevalence of wide commercial arterials connecting pockets of single-family dwellings.

Although these areas experienced changes in land use during the 1985-2000 period in the form of infill development, the scale of these "infill" projects tends to be large and focused around wide commercial arterials. Some would argue that the projects are therefore not infill. The construction of apartments and condominiums as well as the infill of large-scale service, retail and office developments seems to be fairly typical in many suburbs.

The South Bay seems to have experienced some of the most significant changes with the development of service-retail uses along portions of the I-880 corridor. Also, there has been new development of light industrial research and production facilities in areas adjacent to the Bay. For

example, some land that in 1985 was classified as "Marsh" or "Sparsely Vegetated" now is utilized mostly by "Light Industry." A notable exception is an area east of Fremont that was once used as a golf course. It is now one of the few areas surrounding the Bay which is, for the most part, being allowed to revert into "Marsh."

Other regions of the Bay Area, such as the I-680 corridor in Alameda County and the new Highway 85 corridor in Santa Clara County, have experienced modest but diverse land use changes. In both these instances, residential development has occurred, as well as growth of commercial and light industrial uses. For example, Blackhawk grew from a few hundred dwelling units (DUs) to thousands of DUs and a golf course. Modest growth resulting in land use changes has also occurred in some areas along San Pablo Bay in the North Bay. The old site of Marine World-Africa USA near Redwood City was largely redeveloped by 1995. The new site of this recreational area is adjacent to the Solano County Fairgrounds in Vallejo, another "suburban" area.

Overall, the suburban areas of the Bay seem to be experiencing the greatest diversity in land use change. The changes range from infill housing projects to light industrial and commercial developments.

OUTER SUBURBS

Outer suburbs are those areas with new residential use that have been subdivided in the last 10 or 15 years. Interestingly, these are primarily located around some of the smaller old railroad communities in the outlying portions of the greater Bay Area. Land use changes in these areas are, by definition, some form of new urban development. Typically this is residential development in the form of single-family dwelling subdivisions and, to a lesser extent, new retail service developments.

Large previously undeveloped lands around communities as diverse as Antioch in Contra Costa County, Livermore in Alameda County, Fairfield in Solano County and Windsor in Sonoma County have been subdivided with tracts of new single-family dwellings. In addition, a relatively large percentage of undeveloped lands surrounding new subdivisions have been graded and are awaiting new construction. Similar to the original pattern of development of the suburbs, these subdivisions, as well as the commercial, retail and service developments which follow, are not interconnected, but rather are sited as isolated semi-urban outgrowths in the California hills, threaded together by a system of wide arterials and highways.

GENERAL TRENDS

By looking at land use changes in terms of urban context, some of the results of the relationships between inner city and outer suburbs can be seen. In very broad terms, it is apparent that trends that are typical of a suburb are occurring in the inner city, while those that are typical of the inner city seem to be occurring in the suburbs. While suburban land uses are diversifying into a greater mix of uses, portions of the inner city seem to be following a suburban pattern of segregated land uses through the redevelopment of industrial zones into large single-use commercial developments. The increase in the mix of uses that is taking place within suburban areas is perhaps an indication of a land use pattern that might someday take place in the outer suburbs.

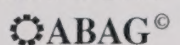
San Francisco Bay Area

scale 1:1,000,000
1 inch = approximately 16 miles
0 5 10 15 Miles
0 5 10 15 20 Kilometers



Existing Land Use in 2000

Source: ABAG, December 2002



Association of Bay Area Governments

Changes in land use over the last fifteen years have not radically changed the overall urban form of the Bay Area. However, changes that have occurred seem to indicate a general pattern for new development and redevelopment exists in all four Spatial-Temporal Development Zones in the Bay Area. One can speculate that this trend may be due to the underlying common behavioral characteristics of Bay Area residents.

LAND USE INFORMATION SOURCES

Although land use maps of the Bay Area have existed for decades, ABAG began the effort to create a systematic and routinely updated map of the region in the mid-1970s. By 1985, a system was well established based on a combination of aerial photography, interviews with city and county personnel, and field checking. These data were not based on uses for individual parcels. To emphasize this “granularity,” through 1995, ABAG has released land use data based on 100-meter by 100-meter grids, with the dominant land use within a grid being coded for the entire 100 square meter (one hectare, or 2.47 acre) area (Perkins and Chuaqui, 1996). One of the benefits of keeping the same land use mapping system between 1985 and 1995 was the potential to identify areas of significant change.

Increasingly, however, the need for more detailed and more spatially accurate mapping has occurred, both within ABAG and for other regional and local projects. Thus, the decision was made to do a major upgrade of the land use data. Two principal sources of data have been added to accomplish this upgrade. First, National Land Cover Data of the U.S. Geological Survey from the mid-1990s has been used to completely replace the USGS LUDA (Land Use Data) maps from the mid-1970s for the rural portions of the region. Second, ABAG has incorporated significant amounts of county assessors’ data on land use. In the process, the definition of land and water have changed, somewhat, resulting in an overall reduction of land in the region. The largest contributor to this change has been the identification of additional ponds, reservoirs, lakes, and narrow waterways.

The decision to incorporate assessors’ data, however, introduces several sources of error and inconsistencies. First, these data were not available for all nine counties in the region. We were unable to obtain data for Alameda County, Santa Clara County, and the incorporated portions of Solano and Sonoma counties (*except the City of Sonoma*). Thus, the quality of land use data is not regionally consistent. For example, these four counties continue to contain some urban areas with only hectare-grid resolution. Second, the assessors’ files show local streets as separate areas. ABAG’s hectare-grid-based maps included local streets with the predominate use. Thus, if using the maps to total areas of various uses, the acres are “net” acres in five counties plus unincorporated Solano and Sonoma counties and “gross” acres in two counties plus incorporated Solano and Sonoma counties. Third, the maps are quite different than earlier maps, so it is difficult to examine land use change between 1995 and 2000. Fourth, the assessors’ offices are mainly concerned about land ownership, not land use. For instance, parcels may be designated as owned by a utility - whether they are a power substation or watershed lands. Obviously, these variations of use are of concern. Thus, the assessors’ maps have only been of use because they could be used with and checked against other sources of land use data. Finally, although ABAG was provided these maps showing uses for individual parcels, it has not been and is not our intent to publish parcel-specific

information. Thus, parcels of identical use (such as areas of medium density single-family homes) have been aggregated. In other cases, ownership parcels have been subdivided, such as with county parks and parcels owned by utilities.

MAP USES

ABAG's digital land use map file is currently used as one component in ABAG's land use *Projections* effort published every two years. In addition, the Bay Area Air Quality Management District uses the data in modeling non-point source pollutants. The data were used in the *Status and Trends Report on Land Use and Population* for the San Francisco Estuary Project (Perkins and others 1991), and have been used by others in surface runoff or non-point water pollution models. Finally, the residential data were a major component in ABAG's earthquake program reports on *Estimates of Uninhabitable Dwelling Units in Future Earthquakes Affecting the San Francisco Bay Region* (Perkins, 1992) and *Preventing the Nightmare* (Perkins and others, 1999). Similar regional and countywide uses are appropriate.

However, because the map is regional in scope and because the data shown are generalized to area averages, the map file should not be used to determine the precise boundaries of an individual parcel or an individual land use. *The urban data are also less well defined for Santa Clara, Alameda, Solano and Sonoma counties.*

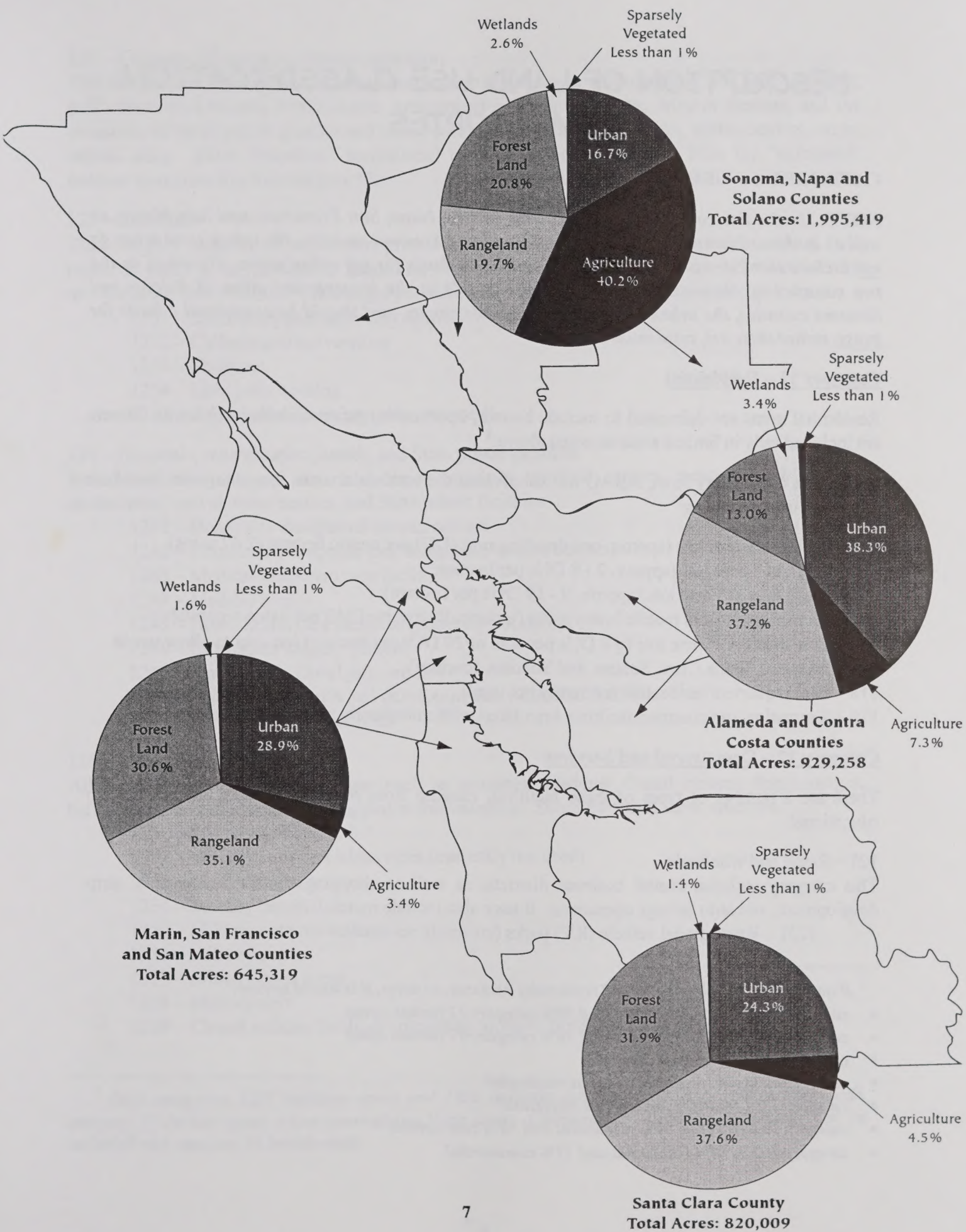
THE LAND USE CLASSIFICATION SYSTEM

In 1976, the U.S. Geological Survey published a numerical land-use classification system designed to meet the varied needs of federal, state, regional, county and local governments (Anderson and others, 1976).

In this "nested" classification system, four levels of numerical subdivision are used to express various levels of detail of map data. One digit subdivisions, such as "1, Urban or Built-Up Areas," are designed to capture data that could be obtained from satellite images and that might be of interest to federal and state agencies. Two digit subdivisions, such as "12, Commercial and Services," are designed to capture data that could be obtained from aerial photographs and that might be of interest to state or regional agencies. Three digit subdivisions, such as "123, Education," are designed to capture data that could be obtained from more detailed aerial photographs with some field checking and that might be of interest to county or regional agencies. Four digit subdivisions, such as "1231, Elementary and Secondary Schools" often require field checking and are of most interest to local governments. ABAG worked with the U.S. Geological Survey on testing a way to integrate four-digit land use codes during the 1980s (Napier and others, 1992).

In today's information age, these more detailed inventory data can be successfully utilized by regional, state and federal agencies. However, the classification system remains a useful tool of collecting and categorizing data. The categories used by ABAG are described on the following pages. It is not identical to the breakdown used on the tables that follow; thus, a correspondence table is also included.

Figure 2: Bay Area Land Use Patterns



DESCRIPTION OF LAND USE CLASSIFICATION CATEGORIES

CATEGORY 1 -- URBAN AND BUILT-UP

NOTE: *In the five counties of Contra Costa, Marin, Napa, San Francisco, and San Mateo, as well as in the unincorporated portions of Solano and Sonoma counties, the urban land areas do not include local streets and should be considered a basis for net urban acres. However, in the two counties of Alameda and Santa Clara, as well as the incorporated cities of Solano and Sonoma counties, the urban land areas do include streets, and should be considered a basis for gross, rather than net, residential acres.*

Category 11 – Residential

Residential areas are delineated to include houses, apartments, garages, sheds, and lawns. Streets are included only in limited areas as noted above.²

In the nine county Bay Area, ABAG has subdivided the residential areas into categories based on density or use as follows:

- 111 – 1-plus to 5 acre lots (approx. one dwelling unit (DU) per metric hectare (2.47 acres)
- 112 – 0.334 to 1 acre lots (approx. 2 - 8 DUs per hectare)
- 113 – 0.126 to 0.333 acre lots (approx. 9 - 19 DUs per hectare)
- 114 – Mobile homes and mobile home parks (technically a part of 113 but listed separately)
- 115 – Less than 0.126 acre lots ($\geq$ 8 DUs per acre or 20 DUs per hectare) (no data to allow use in Alameda, Santa Clara, Solano, and Sonoma counties)
- 118 – Group quarters residential (currently not used)
- 119 – Recreation and common facilities associated with multifamily residential when available

Category 12 – Commercial and Services

There are a number of types of these facilities, ranging from retail commercial, to military, to educational.

121 – Retail and wholesale

This category includes central business districts, as well as shopping centers, commercial strip development, and auto salvage operations. It *may* also include motels.

- 1221 – Recreational vehicle (RV) parks (currently not used)

² *When creating a value for “total” residential hectares, or acres, it is useful to view:*

- *category 111 as 10% residential and 90% category 17 (urban open)*
- *category 112 as 50% residential and 50% category 17 (urban open)*
- *categories 113 - 119 as residential*
- *category 1234 (university housing) as residential*
- *category 1251 (military housing) as residential*
- *category 16 and 161 as 50% residential and 50% commercial*
- *category 162 as 67% residential and 33% commercial*

122 – Commercial intensive outdoor recreation

This category includes intensive areas of recreation which cover a minimum of one acre, including golf course club houses, tennis courts, amusement parks, swim clubs, drive-in theaters, and the structures in large public (county and state) parks (such as meeting rooms, visitor centers, rental cabins, etc.). These “intensive” recreational uses are mapped separately from the “extensive” outdoor uses shown in Subcategory 171.

123 – Education

This category includes all public and private schools, including pre-schools and subsidiary land (such as parking, administrative structures, recreation areas and dormitories). Seminaries and novitiates are also included. The category is subdivided, when the information is available, into:

- 1231 – Elementary and secondary schools
- 1232 – Colleges and universities
- 1233 – Stadiums
- 1234 – University housing
- 1235 – Day care facilities (currently not used)

124 – Hospitals, rehabilitation, health, and State prison facilities

Included in this category are most major hospitals, medical centers, mental health centers, sanitariums, convalescent centers, and State prison facilities.

- 1241 – Hospitals - designated trauma centers
- 1242 – Community hospitals (not designated trauma centers)
- 1243 – Medical long-term care facilities
- 1244 – Medical clinics
- 1245 – Home health care facilities (currently not used)
- 1246 – Out-patient surgery centers
- 1247 – State prisons (local jails are 1267)
- 1248 – State mental health and developmentally disabled facilities
- 1249 – State psychiatric facilities

125 – Military installations³

All areas which reflect military use such as armories, National Guard centers, firing ranges, barracks and arsenals have been mapped in this category. Subdivisions of these areas are:

- 1251 – Military residential
- 1252 – Military commercial/services (currently not used)
- 1253 – General military use
- 1254 – Military hospital
- 1255 – Military communications
- 1256 – Military airport
- 1257 – Military open areas
- 1258 – Military port
- 1259 – Closed military facilities (including airports, ports, and hospitals)

³ Both categories 1257 (military open) and 1255 (military communications) can be included with category 17 (urban open) when generalizing these data. Category 1251 (military residential) can be included with category 11 (residential).

126 – Local government and other public facilities

This category includes major government facilities, typically at least two acres (one hectare) in size. Such facilities may include libraries, post offices, police and fire stations, city and county government complexes, and state and federal facilities. Eight subcategories of facilities have been included:

- 1261 – Stadium (when not associated with a college or university)
- 1262 – Churches, synagogues, and mosques
- 1263 – Fire station
- 1264 – Police station
- 1265 – City halls, and county, state, and federal government centers
- 1266 – Government Emergency Operations Centers (EOCs)
- 1267 – Local government jails and rehabilitation centers (State prisons are 1247)
- 1268 – Convention centers
- 1269 – Museums and libraries

127 – Research centers

Major research centers (including both offices and laboratories) have been included in this subcategory.

128 – Offices

Some major areas of offices or professional centers have been identified and mapped in this subcategory.

129 – Hotels and motels

In certain parts of the Bay Area, particularly in San Francisco, areas predominately composed of hotels or motels have been mapped.

Category 13 – Industrial

This category includes the subcategories of heavy and light industrial, and metal salvage or recycling.

In the nine-county Bay Area, industrial use has been separated into these uses based both on the type of production and the product manufactured. For example, the manufacturing of locomotives would be considered heavy industrial, whereas the manufacturing of model trains would be considered light industrial.

131 – Heavy industrial

These industrial activities are devoted to heavy fabrication, making and assembling parts which are, in themselves, large and heavy, or to the processing of basic raw materials. Most industries in this category involve mechanical, chemical or heat processing. Although salt evaporation ponds along San Francisco Bay might be considered part of this category, they are considered a part of "63 -- Salt Evaporation Ponds" for purposes of this mapping effort.

132 – Light industrial

These industrial activities include the design, assembly, finishing and packaging of products, rather than with processing basic raw materials. Typical industries in this category include electronics

firms, small textile mills, warehousing, and assembly plants. These facilities have been mapped along with associated parking lots and grounds.

133 – Metal salvage and recycling

The large-scale recycling of metal in salvage yards is a form of industrial operation that does not fit the standard definitions of heavy or light industrial operations. Thus, it is given its own category rather than being placed in the general 13-Industry category.

134 – Food processing

Some portions of the region have areas designated for the processing of food, such as wineries and canneries. These areas are distinct from areas of agriculture used for food production.

135 – Warehousing

Some portions of the Bay Area are staging areas for the storage or transportation of goods. Warehousing areas have been mapped where information was sufficient to define specific areas.

139 – Industrial common areas (currently not used)

Category 14 – Transportation, Communication and Utilities

This category includes eight infrastructure systems as subcategories. A great deal of effort has been made to place all of these facilities in the appropriate four-digit subcategory.

141 – Road transportation facilities

1411 – Highways and interchanges (all areas meeting a 55-yard, or 50-meter, minimum mapping specification have been mapped; both paved areas and adjacent rights-of-way are included; some additional narrower areas have been mapped, or may be included in the local roads and streets shown below)

1412 – Bus transit centers (currently not used)

1413 – Park and Ride lots (for car pools)

1414 – Truck or bus maintenance yard

1415 – City, county or utility corporation yard (for the maintenance of their vehicles)

1416 – Parking garages

1417 – Inspection and weighing stations

1418 – Local streets and roads

1419 – Walkways and bicycle paths (currently not used)

142 – Rail transportation facilities

1421 – Rail passenger stations (including Amtrak, BART and CalTrain)

1422 – Rail yards (included are switching, classification and maintenance yards, as well as terminals)

1423 – Light rail stations (currently not used)

1424 – Light rail yards (currently not used)

143 – Airports

This subcategory is broken down into commercial airports (with 6 groups), public (general aviation), and private airfield. In the Bay Area, the three commercial airports of San Francisco, Oakland and San Jose are shown.

- 1431 – Commercial airport passenger terminal
- 1432 – Commercial airport air cargo facility
- 1433 – Commercial airport airline maintenance
- 1434 – Commercial airport runway
- 1435 – Commercial airport utilities (water, communications, power)
- 1436 – Commercial airport - other (including parking, buffers, and other land related to airport operations)
- 1437 – General aviation (public) airfield
- 1438 – Private airfield (note - not all private airfields are identified)

144 – Marine transportation facilities

This category is characterized by port or dock facilities and associated warehouses and storage areas. This category also includes passenger terminals, slips and associated parking areas. The five commercial ports in the Bay Area (Oakland, San Francisco, Richmond, Benicia and Redwood City) are subdivided. The tug, marina, and ferry facility locations are shown.

- 1441 – Commercial port passenger terminal
- 1442 – Commercial port container terminal
- 1443 – Commercial port oil and liquid bulk terminal
- 1444 – Commercial port - other terminal and ship repair
- 1445 – Commercial port storage and warehousing
- 1446 – Tow boat (tug) facility
- 1447 – Ferry terminal (including associated open areas and parking)
- 1448 – Marina

145 – Power facilities

- 1451 – Electricity – Power plant
- 1452 – Electricity – Substation (not associated with industrial activities and covering the minimum mapping size requirement of 2 acres or 1 hectare)
- 1453 – Electricity – Other (including power transmission lines meeting a 55-yard (50-meter) minimum mapping specification)
- 1454 – Service center (currently not used)
- 1455 – Building (currently not used)
- 1456 – Natural gas facility (currently not used)

146 – Municipal wastewater facilities

- 1461 – Wastewater treatment plant
- 1462 – Wastewater pumping station
- 1463 – Wastewater storage

147 – Municipal water supply facilities

- 1471 – Water treatment (filtration) plant
- 1472 – Water pumping station (currently not used)
- 1473 – Water storage (covered)
- 1474 – Water storage (open)

148 – Communication facilities

- 1481 – Communications – Network tower (currently not used)
- 1482 – Communications – Tower (currently not used)
- 1483 – Media broadcast tower and communications facilities
- 1484 – Telephone company "offices" (currently not used)

Category 15 – Mixed Commercial and Industrial Complexes

Areas of mixed commercial and industrial use, as well as areas of multiple commercial and industrial uses within a single structure, have been placed in this category. Areas of predominately commercial use or predominately industrial use are *not* included, whenever feasible. Mixed residential and commercial areas have been included as part of Category 16. Note that areas of scrap metal recycling are included in Subcategory 133.

Category 16 – Mixed Residential and Commercial Use

Mixed residential and commercial uses, whether in an area or within a single structure, have been placed in this category. Mixed land use is common in areas converting from residential to commercial. Also, rural centers often are too small to map separately as commercial or residential.

- 161 – Transitional (mixed use of land areas)
- 162 – Mixed use in buildings

Category 17 – Other Urban and Built-Up Land

Areas that have been affected by urban development but with minimal paving and buildings are included in this category.⁴

171 – Extensive recreation

Included in this category are athletic fields and playgrounds. When available, two subdivisions are shown:

- 1711 – Golf courses (the extensive, not the intensive, portion – thus, the golf clubhouse is usually shown as Category 122)
- 1712 – Racetracks
- 1713 – Camps and campgrounds

172 – Cemeteries

Public, private and military cemeteries are included.

173 – Urban parks

All leisure, ornamental, zoological and botanical parks are included when the use is apparent. However, areas of extensive tree cover may be classified as forest. Thus, city parks are included in this category, but large parks (such as those operated by the East Bay Regional Park District or county park districts) are subdivided into forest, grassland, etc. and noted as "protected").

⁴ *Note: for purposes of obtaining a general "urban open" total area, Subdivisions 1255 (Military Communications), 1257 (Military Open), 90% of 111 (Rural Residential), and 50% of 112 (Low-Density Residential) can be included in this category.*

174 – Open space – slated for redevelopment

This category includes land that *has been developed* as an urban use but is currently open waiting for redevelopment.

175 – Urban vacant undeveloped land

Undeveloped open areas and vacant lots slated for urban development, as well as open areas on the urban/rural boundary are shown in this category. Typically, these lots are small in size and have had some clearing or other activity occur in preparation for construction. When known, the following subdivisions are also included:

1751 – Vacant residential

1752 – Vacant commercial or services

1753 – Vacant industrial

1754 – Vacant infrastructure (currently not used)

CATEGORY 2 -- AGRICULTURAL LAND

Category 21 – Cropland and Pasture

Included in this category are harvested, idle, and cultivated cropland, as well as pasture.

211 – Cropland

2111 – Row crops

2112 – Small grains

212 – Pasture

Category 22 – Orchards, Groves, Vineyards, Nurseries and Ornamental Horticulture Areas

This land produces most of the various nut and fruit crops. Horticulture areas include greenhouses, floriculture areas, and sod farms used year after year for these purposes.

221 – Orchards or groves

222 – Vineyards and kiwi fruit

223 – Greenhouses and floriculture, including wholesale nurseries greater than 5 acres (approx. two hectares) in size

224 – Evergreen tree farms (currently not used)

Category 23 – Confined Feeding

Included in this category are large poultry farms, as well as hog and cattle feedlots. The use is characterized by large animal populations in confined areas with many associated buildings, fences, and waste disposal areas.

Category 24 – Farmsteads and Agricultural Buildings

This land use includes the portion of rural land that often includes buildings such as stables, barns, sheds, food pre-processing, occasional houses, and clearings, as well as some inactive farmland.

CATEGORY 3 – RANGELAND

This division of land use includes areas where the natural vegetation is largely grasses and grass-like plants, shrub and brush, and chaparral. *Note - in this category, the three-digit land use codes relate to ownership, rather than subdivisions of vegetation type. In this way, information about a particular use being "protected" as part of a county park, for example, can be made available.*

Category 31 – Herbaceous Rangeland

These areas include rangeland in which grasses and herbs, rather than chaparral and coastal shrub, predominate.

311 – Protected as parkland

Category 32 – Shrub and Brush Rangeland

These areas include rangeland in which chaparral and coastal shrub, rather than grasses and herbs, predominate.

321 – Protected as parkland

Category 33 – Mixed Rangeland

These areas include rangeland in which neither chaparral and coastal shrub, nor grasses and herbs, predominate.

331 – Protected as parkland

CATEGORY 4 – FOREST LAND

Note - in this category, the three-digit land use codes relate to ownership, rather than subdivisions of vegetation type. In this way, information about a particular use being "protected" as part of a county park, for example, can be made available.

Category 41 – Deciduous Forest

These areas include the forested areas in which deciduous trees (those losing their leaves in a dormant season) predominate.

411 – Protected as parkland

Category 42 – Evergreen Forest

These areas include the forested areas in which evergreen trees (those which remain green throughout the year) predominate.

421 – Protected as parkland

Category 43 – Mixed Forest

These areas include both deciduous and evergreen trees. Neither predominates.

431 – Protected as parkland

CATEGORY 5 – WATER

These areas include those locations in the general land mass predominately covered by water with a minimum mapped width of approximately 55 yards (50 meters).

Category 51 – Streams and Canals

Mapped streams and canals only include those locations in the general land mass predominately covered by water with a minimum mapped width of approximately 55 yards (50 meters).

Category 52 – Lakes

Category 53 – Reservoirs

Category 54 – Bays and Estuaries

Category 55 – Sedimentation Ponds

Note that areas of wastewater storage are classified as 1463, not 55. (currently not used)

Category 56 – Water on USGS Base Maps but Land on USGS or Assessors' Land Use Maps

This category includes those areas depicted as water on the USGS 7.5' topographic quadrangle maps, but shown as land on USGS NLCD or county assessors' maps. This category, along with Category 64, were created to deal with discrepancies which occur in the mapping of the land-water boundary shown on these data sources.

561 – Water - Residential (including arks) over water

561 – Water - Commercial piers over water

563 – Water - Industrial ports and piers over water

Category 57 – Drainage Ditches (currently not used)

CATEGORY 6 – WETLANDS

The ABAG land use maps are largely consistent with the mapping of the U.S. Geological Survey, rather than that of the U.S. Fish and Wildlife Service. The USGS mapping was developed using criteria from their national land use mapping program. The mapping was developed to indicate general land use patterns, not specifically to identify wetlands areas. Mapping completed by the U.S. Fish and Wildlife Service and referenced in the *Wetlands Status and Trends Report* of the San Francisco Estuary Project (SFEP) is a more appropriate source of specific wetlands information, both because wetlands that are smaller in extent have been identified, and because the wetlands subcategories are more comprehensive and descriptive. No overall attempt has been made to integrate the wetlands mapped by the Fish and Wildlife Service into the land use maps. By maintaining two separate sources of maps, wetlands present in areas dominated by another land use (such as industrial) can be identified. Thus, the mapping of the USGS has been shown on these maps. For more information on wetlands mapping, see the *Wetlands Status and Trends Report* produced by ABAG for the San Francisco Estuary Project.

Category 61 – Forested Wetlands

According to USGS, "Forested Wetlands are wetlands dominated by woody vegetation. Forested Wetlands includes seasonally flooded bottomland hardwoods, mangrove swamps, shrub swamps, and wooded swamps including those around bogs" (Anderson and others, 1976). Within the land use study area, the only type of forested wetlands are those classified in the Wetlands Status and Trends Report as "Riparian Forest" or "Palustrine Wooded Vegetation."

Category 62 – Nonforested Wetlands

According to USGS, "Nonforested Wetlands are dominated by wetland herbaceous vegetation or are nonvegetated. These wetlands include tidal and nontidal fresh, brackish, and salt marshes and nonvegetated flats and also freshwater meadows, wet prairies, and open bogs" (Anderson and others, 1976). This category includes those classified in the Wetlands Status and Trends Report as tidal and freshwater marshes, as well as seasonal and diked ponds and marshes.

Category 63 – Salt Evaporation Ponds

Wetlands along San Francisco Bay used for the production of salt. This category includes those lands classified as "Salt Evaporators" or "Lacustrine Non-Vegetated Diked" in the *Wetlands Status and Trends Report*.

Category 64 – Land on USGS Base Maps but Water on USGS or Assessors' Land Use Maps

This category includes those areas depicted as land on the USGS 7.5' quadrangle maps, but shown as water on the USGS NLCD or county assessors' maps. This category, along with Category 56, were created to deal with discrepancies which occur in the mapping of the land-water boundary shown on these two data sources.

CATEGORY 7 – SPARSELY VEGETATED LAND

These areas have limited ability to support life and are characterized by a general absence of vegetation. The U.S. Geological Survey terms this category "Barren Land."

Category 71 – Salt Flats

These areas are generally dry, as opposed to the salt evaporation ponds in the Bay Area, which have been mapped as Category 63. (currently not used)

Category 72 – Beaches

This category includes the smooth, gently sloping areas of sand and gravel in shoreline areas.

Category 73 – Sand Other than Beaches

This category includes non-beach sand, or dunes.

Category 74 – Bare Exposed Rock

Included are bedrock exposures, talus slopes and other non-vegetated rock.

Category 75 – Strip Mines, Quarries and Gravel Pits

These areas of extractive mining are included as a subdivision of barren land (75) rather than of urban or built-up land (17 or 13).

751 – Strip mines or quarries are the principal uses; commercial operation

752 – Earth works not associated with a commercial operation (usually on a portion of a rural parcel)

753 – Commercial gas well (currently not used)

Category 76 – Transitional Areas

These areas of sparsely vegetated land are characterized by having an urban component of use. For example, some airport buffer areas are included as Category 76. These areas are not slated for redevelopment or further development, as is the case with categories 174 and 175. When the information is available, they have been subdivided into:

761 – Sanitary land fills

762 – Other transitional

763 – Hunting and related activities (currently not used)

764 – Right-of-way (only identified in limited areas)

Category 77 – Mixed Sparsely Vegetated Land

This category is used when a variety of sparsely vegetated land types occur, or when the appropriate subcategory could not be identified. The U.S. Geological Survey terms this category "Mixed Barren Land."

Category 78 – Levees and Dams (currently not used)

Although the following two categories are not present in the Bay Area, they are present in the Central Valley watershed (in portions of the Sierra Nevada, Cascade and Trinity Mountains which drain into the Central Valley and from there into San Francisco Bay). They are included in this report to provide potential users with the complete list of two-digit subcategories used by the U.S. Geological Survey.

CATEGORY 8 – TUNDRA (NOT PRESENT IN THE BAY AREA)

Category 81 – Shrub and Brush Tundra

Category 82 – Herbaceous Tundra

Category 83 – Bare Ground

Category 84 – Wet Tundra

Category 85 – Mixed Tundra

CATEGORY 9 – PERENNIAL SNOW OR ICE (NOT PRESENT IN THE BAY AREA)

Category 91 – Perennial Snowfields

Category 92 – Glaciers

**Correspondence Table Between Numerical Classification System and
Classification System Used on the Regional and County Summary Tables**

Description	Numerical Classification Codes
TOTAL RESIDENTIAL LAND [excluding mixed use]:	111,112,113,114,115,119
1 unit/1-5 acre lot (Rural Residential)	111
1-3 units/acre (Not Mobile Home Parks)	112
3-8 units/acre (Not Mobile Home Parks)	113
>8 units/acre, Multifamily, Group Quarters	115,119
Mobile Home Parks	114
TOTAL MIXED RESIDENTIAL/ COMMERCIAL:	16,161,162
Within a Land Area	161
Within a Building	162
Mixture of Above or Unknown	16
TOTAL MIXED COMMERCIAL/ INDUSTRIAL:	15
TOTAL INDUSTRIAL [excluding mixed]:	13,131,132,133,134,135
Light Industrial	132
Heavy Industrial	131
Salvage/Recycling, Mixture or Unknown	13,133
Food Processing, Warehousing	134,135
TOTAL MAJOR INFRASTRUCTURE:	14,141-148,1411-1483 (note codes not used below)
Roads, Highway and Related Facilities	141,1411-1419 (except 1412,1419)
Rail Stations, Yards and Related Facilities	142,1421-1422
Airports	143,1431-1438
Ports	144,1441-1448
Power Facilities	145,1451-1453
Municipal Wastewater Facilities	1461-1463
Municipal Water Supply Facilities	147,1471,1473,1474
Communication Facilities	148,1483
Other, Unknown	14
TOTAL MILITARY:	125,1251,1253,1254,1256,1257,1258,1259
Military Residential	1251
Military Hospital	1254
Military Communications	1256
Military Airport or Port	1256,1258
General Military	1253,125
Open Military Lands	1257
Closed Military Facilities	1259

**Correspondence Table Between Numerical Classification System and
Classification System Used on the Regional and County Summary Tables (continued)**

Description	Numerical Classification Codes
TOTAL COMMERCIAL/SERVICES [excluding mixed use]:	12,121-129,1231-1234,1241-1244,1246- 1249,1261-1269
<i>Subtotal-Commercial:</i>	12,121,122,1221,127,128,129
Retail/Wholesale	121
Research/Office	127,128
Comm. Outdoor Recreation	122
Other, Mixture or Unknown	12,129
<i>Subtotal-Education:</i>	123,1231,1232,1233,1234
Educational Offices and Day Care	123
Elementary/Secondary	1231
Colleges/Universities	1232
Stadium Facilities	1233
University Housing	1234
<i>Subtotal-Hospitals and Health Care Facilities:</i>	124,1241-1244,1246-1249
Trauma Center Hospitals	1241
Community or Local Hospitals	124,1242
Surgery Centers	1246
State Prisons	1247
State Mental Health Facilities	1248,1249
Clinics and Long-Term Care	1243,1244
<i>Subtotal-Public Institutions:</i>	126,1268,1261-1269
Convention Centers	1268
Sports Stadiums	1261
Churches/Synagogues/Other	1262
City Halls/County Administration	1265
Local Jails	1267
Local Police/Fire/Emergency	1263,1264,1266
Other-Comm. Centers/Libraries	126,1269
TOTAL URBAN OPEN:	17,171-175,1711-1713,1751-1753
<i>Subtotal-Extensive Outdoor Recreation:</i>	1711,1712,171,1713
Golf Courses	1711
Racetracks	1712
Campgrounds and Other	171,1713
Cemeteries:	172
Parks:	173
Vacant--Cleared for Redevelopment:	174
Vacant--Undeveloped:	175,1751,1752,1753
Mixed Urban Open, Including Parks:	17

**Correspondence Table Between Numerical Classification System and
Classification System Used on the Regional and County Summary Tables (continued)**

Description	Numerical Classification Codes
TOTAL AGRICULTURE:	21,211,2111,2112,212,22,221,222,223,23,24
Cropland and Pasture	21,211,2111,2112,212
Orchards/Groves/Vineyards	22,221,222
Greenhouses	223
Confined Feeding	23
Farmsteads and Inactive	24
TOTAL RANGELAND:	31,311,32,321,33,331
Herbaceous Range	31,311
Shrub and Brush	32,321
Mixed Range	33,331
TOTAL WETLANDS [Based on U.S. Geological Survey Mapping]:	61,62,63,64
Forested	61
Non-Forested	62
Salt Evaporators	63
Unknown	64
TOTAL FOREST LAND:	41,411,42,421,43,431
Deciduous	41,411
Evergreen	42,421
Mixed Forest	43,431
TOTAL SPARSELY VEGETATED:	72,73,74,75,751,752,761,762,76,764,77
Beaches	72
Other Sand	73
Bare Rock	74
Mines/Quarries	75,751,752
Transitional--Landfills	761
Transitional--Other	762,764
Transitional--Mixture	76
Mixed Sparsely Vegetated	77

JURISDICTION: 9-County Bay Area
NOTE: Mix Net/Gross Acres

TOTAL LAND (in acres):	4,390,005
2000 URBAN LAND (in acres):	1,075,200
NON-URBAN LAND (in acres):	3,314,805

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	927,504	TOTAL FOREST LAND:	994,417
Cropland and Pasture	707,106	Deciduous	144,916
Orchards/Groves/Vineyards	213,941	Evergreen	429,795
Greenhouses	152	Mixed Forest	419,706
Confined Feeding	1,343		
Farmsteads and Inactive	4,961	TOTAL SPARSELY VEGETATED:	14,822
		Beaches	1,615
TOTAL RANGELAND:	1,273,425	Other Sand	98
Herbaceous Range	914,583	Bare Rock	1,351
Shrub and Brush	333,212	Mines/Quarries	6,400
Mixed Range	25,630	Transitional--Landfills	53
		Transitional--Other	432
TOTAL WETLANDS [Based on		Transitional--Mixture	1,488
U.S. Geological Survey Mapping]:	104,637	Mixed Sparsely Vegetated	3,387
Forested	7,036		
Non-Forested	58,239		
Salt Evaporators	38,612		
Unknown	750		

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Alameda County	TOTAL LAND (in acres):	471,083
NOTE: Gross, NOT Net, Acres	2000 URBAN LAND (in acres):	164,314
	NON-URBAN LAND (in acres):	306,768

URBAN LAND IN 2000

	ACRES		ACRES
TOTAL RESIDENTIAL LAND		TOTAL COMMERCIAL/SERVICES	
[excluding mixed use]:	86,281	[excluding mixed use]:	20,352
1 unit/1-5 acre lot (Rural Residential)	3,305	Subtotal-Commercial:	12,699
1-3 units/acre (Not Mobile Home Parks)	6,686	Retail/Wholesale	10,466
3-8 units/acre (Not Mobile Home Parks)	75,335	Research/Office	2,025
>8 units/acre Multifamily, Group Quarters	520	Comm. Outdoor Recreation	208
Mobile Home Parks	436	Other, Mixture or Unknown	0
		Subtotal-Education:	6,226
TOTAL MIXED RESIDENTIAL/		Educational Offices and Day Care	208
COMMERCIAL:	412	Elementary/Secondary	3,654
Within a Land Area	27	Colleges/Universities	2,365
Within a Building	0	Stadium Facilities	0
Mixture of Above or Unknown	385	University Housing	0
TOTAL MIXED COMMERCIAL/		Subtotal-Hospitals and	
INDUSTRIAL:	5,992	Health Care Facilities:	408
		Trauma Center Hospitals	28
TOTAL INDUSTRIAL [excluding mixed]:	13,068	Community or Local Hospitals	216
Light Industrial	4,486	Surgery Centers	7
Heavy Industrial	1,908	State Prisons	73
Salvage/Recycling, Mixture or Unknown	6,440	State Mental Health Facilities	0
Food Processing, Warehousing	234	Clinics and Long-Term Care	84
		Subtotal-Public Institutions:	1,019
TOTAL MAJOR INFRASTRUCTURE:	5,198	Convention Centers	3
Roads, Highway and Related Facilities	90	Sports Stadiums	124
Rail Stations, Yards and Related Facilities	626	Churches/Synagogues/Other	123
Airports	3,306	City Halls/County Administration	126
Ports	895	Local Jails	408
Power Facilities	30	Local Police/Fire/Emergency	22
Municipal Wastewater Facilities	160	Other-Comm. Centers/Libraries	213
Municipal Water Supply Facilities	86		
Communication Facilities	5	TOTAL URBAN OPEN:	27,890
Other, Unknown	0	Subtotal-Extensive Outdoor	
		Recreation:	6,031
TOTAL MILITARY:	5,122	Golf Courses	3,334
Military Residential	0	Racetracks	121
Military Hospital	212	Campgrounds and Other	2,577
Military Communications	0	Cemeteries:	777
Military Airport or Port	166	Parks:	11,518
General Military	1,261	Vacant--Cleared for Redevelopment:	755
Open Military Lands	687	Vacant--Undeveloped:	3,675
Closed Military Facilities	2,796	Mixed Urban Open, Including Parks:	5,135

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Alameda County	TOTAL LAND (in acres):	471,083
NOTE: Gross, NOT Net, Acres	2000 URBAN LAND (in acres):	164,314
	NON-URBAN LAND (in acres):	306,768

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	10,135	TOTAL FOREST LAND:	75,621
Cropland and Pasture	9,648	Deciduous	20,600
Orchards/Groves/Vineyards	488	Evergreen	28,044
Greenhouses	0	Mixed Forest	26,977
Confined Feeding	0		
Farmsteads and Inactive	0	TOTAL SPARSELY VEGETATED:	4,771
		Beaches	100
TOTAL RANGELAND:	195,270	Other Sand	0
Herbaceous Range	175,034	Bare Rock	876
Shrub and Brush	15,968	Mines/Quarries	3,284
Mixed Range	4,268	Transitional--Landfills	0
		Transitional--Other	0
TOTAL WETLANDS [Based on		Transitional--Mixture	511
U.S. Geological Survey Mapping]:	20,971	Mixed Sparsely Vegetated	0
Forested	32		
Non-Forested	1,679		
Salt Evaporators	18,952		
Unknown	309		

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Contra Costa County	TOTAL LAND (in acres):	458,175
NOTE: Net Acres	2000 URBAN LAND (in acres):	191,973
	NON-URBAN LAND (in acres):	266,202

URBAN LAND IN 2000

	ACRES		ACRES
TOTAL RESIDENTIAL LAND		TOTAL COMMERCIAL/SERVICES	
[excluding mixed use]:	80,283	[excluding mixed use]:	13,847
1 unit/1-5 acre lot (Rural Residential)	11,058	Subtotal-Commercial:	6,746
1-3 units/acre (Not Mobile Home Parks)	16,078	Retail/Wholesale	4,764
3-8 units/acre (Not Mobile Home Parks)	35,672	Research/Office	1,554
> 8 units/acre Multifamily, Group Quarters	16,820	Comm. Outdoor Recreation	316
Mobile Home Parks	655	Other, Mixture or Unknown	113
		Subtotal-Education:	3,949
TOTAL MIXED RESIDENTIAL/		Educational Offices and Day Care	2,957
COMMERCIAL:	0	Elementary/Secondary	0
Within a Land Area	0	Colleges/Universities	992
Within a Building	0	Stadium Facilities	0
Mixture of Above or Unknown	0	University Housing	0
TOTAL MIXED COMMERCIAL/		Subtotal-Hospitals and	
INDUSTRIAL:	0	Health Care Facilities:	318
		Trauma Center Hospitals	14
TOTAL INDUSTRIAL [excluding mixed]:	12,378	Community or Local Hospitals	110
Light Industrial	4,848	Surgery Centers	0
Heavy Industrial	7,389	State Prisons	0
Salvage/Recycling, Mixture or Unknown	0	State Mental Health Facilities	0
Food Processing, Warehousing	141	Clinics and Long-Term Care	195
		Subtotal-Public Institutions:	2,833
TOTAL MAJOR INFRASTRUCTURE:	33,789	Convention Centers	0
Roads, Highway and Related Facilities	30,475	Sports Stadiums	0
Rail Stations, Yards and Related Facilities	0	Churches/Synagogues/Other	897
Airports	2,153	City Halls/County Administration	1,862
Ports	830	Local Jails	43
Power Facilities	329	Local Police/Fire/Emergency	0
Municipal Wastewater Facilities	0	Other-Comm. Centers/Libraries	32
Municipal Water Supply Facilities	0		
Communication Facilities	0	TOTAL URBAN OPEN:	43,100
Other, Unknown	1	Subtotal-Extensive Outdoor	
		Recreation:	8,446
TOTAL MILITARY:	8,578	Golf Courses	5,613
Military Residential	0	Racetracks	0
Military Hospital	17	Campgrounds and Other	2,833
Military Communications	0	Cemeteries:	685
Military Airport or Port	0	Parks:	4,821
General Military	6,162	Vacant--Cleared for Redevelopment:	8,864
Open Military Lands	2,399	Vacant--Undeveloped:	20,201
Closed Military Facilities	0	Mixed Urban Open, Including Parks:	82

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Marin County		TOTAL LAND (in acres):		327,310	
NOTE: Net Acres		2000 URBAN LAND (in acres):		52,767	
		NON-URBAN LAND (in acres):		274,544	
URBAN LAND IN 2000					
		ACRES		ACRES	
TOTAL RESIDENTIAL LAND			TOTAL COMMERCIAL/SERVICES		
[excluding mixed use]:		30,277	[excluding mixed use]:		6,125
1 unit/1-5 acre lot (Rural Residential)		11,142	Subtotal-Commercial:		5,671
1-3 units/acre (Not Mobile Home Parks)		8,726	Retail/Wholesale		157
3-8 units/acre (Not Mobile Home Parks)		8,235	Research/Office		107
> 8 units/acre Multifamily, Group Quarters		1,978	Comm. Outdoor Recreation		0
Mobile Home Parks		196	Other, Mixture or Unknown		5,407
TOTAL MIXED RESIDENTIAL/			Subtotal-Education:		54
COMMERCIAL:		0	Educational Offices and Day Care		0
Within a Land Area		0	Elementary/Secondary		3
Within a Building		0	Colleges/Universities		51
Mixture of Above or Unknown		0	Stadium Facilities		0
TOTAL MIXED COMMERCIAL/			University Housing		0
INDUSTRIAL:		0	Subtotal-Hospitals and		
TOTAL INDUSTRIAL [excluding mixed]:		593	Health Care Facilities:		256
Light Industrial		0	Trauma Center Hospitals		49
Heavy Industrial		0	Community or Local Hospitals		0
Salvage/Recycling, Mixture or Unknown		593	Surgery Centers		0
Food Processing, Warehousing		0	State Prisons		208
TOTAL MAJOR INFRASTRUCTURE:		10,069	State Mental Health Facilities		0
Roads, Highway and Related Facilities		9,564	Clinics and Long-Term Care		0
Rail Stations, Yards and Related Facilities		0	Subtotal-Public Institutions:		144
Airports		113	Convention Centers		73
Ports		9	Sports Stadiums		0
Power Facilities		0	Churches/Synagogues/Other		0
Municipal Wastewater Facilities		0	City Halls/County Administration		55
Municipal Water Supply Facilities		0	Local Jails		8
Communication Facilities		0	Local Police/Fire/Emergency		0
Other, Unknown		383	Other-Comm. Centers/Libraries		9
TOTAL MILITARY:		285	TOTAL URBAN OPEN:		5,418
Military Residential		0	Subtotal-Extensive Outdoor		
Military Hospital		0	Recreation:		1,083
Military Communications		0	Golf Courses		1,083
Military Airport or Port		0	Racetracks		0
General Military		285	Campgrounds and Other		0
Open Military Lands		0	Cemeteries:		225
Closed Military Facilities		0	Parks:		360
			Vacant--Cleared for Redevelopment:		0
			Vacant--Undeveloped:		3,570
			Mixed Urban Open, Including Parks:		182
Source: Association of Bay Area Governments					
December 2002					

JURISDICTION: Marin County	TOTAL LAND (in acres):	327,310
NOTE: Net Acres	2000 URBAN LAND (in acres):	52,767
	NON-URBAN LAND (in acres):	274,544

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	8,379	TOTAL FOREST LAND:	106,267
Cropland and Pasture	8,294	Deciduous	5,537
Orchards/Groves/Vineyards	9	Evergreen	67,834
Greenhouses	0	Mixed Forest	32,897
Confined Feeding	0		
Farmsteads and Inactive	76	TOTAL SPARSELY VEGETATED:	38
		Beaches	0
TOTAL RANGELAND:	156,092	Other Sand	0
Herbaceous Range	141,255	Bare Rock	0
Shrub and Brush	12,610	Mines/Quarries	38
Mixed Range	2,227	Transitional--Landfills	0
		Transitional--Other	0
TOTAL WETLANDS [Based on		Transitional--Mixture	0
U.S. Geological Survey Mapping]:	3,768	Mixed Sparsely Vegetated	0
Forested	331		
Non-Forested	3,437		
Salt Evaporators	0		
Unknown	0		

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Napa County	TOTAL LAND (in acres):	475,747
NOTE: Net Acres	2000 URBAN LAND (in acres):	34,802
	NON-URBAN LAND (in acres):	440,945

URBAN LAND IN 2000

	ACRES		ACRES
TOTAL RESIDENTIAL LAND		TOTAL COMMERCIAL/SERVICES	
[excluding mixed use]:	17,878	[excluding mixed use]:	746
1 unit/1-5 acre lot (Rural Residential)	9,187	Subtotal-Commercial:	360
1-3 units/acre (Not Mobile Home Parks)	2,279	Retail/Wholesale	208
3-8 units/acre (Not Mobile Home Parks)	4,160	Research/Office	43
> 8 units/acre Multifamily, Group Quarters	1,506	Comm. Outdoor Recreation	24
Mobile Home Parks	747	Other, Mixture or Unknown	85
		Subtotal-Education:	289
TOTAL MIXED RESIDENTIAL/		Educational Offices and Day Care	0
COMMERCIAL:	33	Elementary/Secondary	171
Within a Land Area	30	Colleges/Universities	119
Within a Building	0	Stadium Facilities	0
Mixture of Above or Unknown	4	University Housing	0
TOTAL MIXED COMMERCIAL/		Subtotal-Hospitals and	
INDUSTRIAL:	39	Health Care Facilities:	79
		Trauma Center Hospitals	0
TOTAL INDUSTRIAL [excluding mixed]:	2,502	Community or Local Hospitals	69
Light Industrial	1,359	Surgery Centers	0
Heavy Industrial	22	State Prisons	0
Salvage/Recycling, Mixture or Unknown	0	State Mental Health Facilities	4
Food Processing, Warehousing	1,120	Clinics and Long-Term Care	5
		Subtotal-Public Institutions:	18
TOTAL MAJOR INFRASTRUCTURE:	8,674	Convention Centers	0
Roads, Highway and Related Facilities	7,667	Sports Stadiums	0
Rail Stations, Yards and Related Facilities	151	Churches/Synagogues/Other	6
Airports	818	City Halls/County Administration	8
Ports	0	Local Jails	0
Power Facilities	0	Local Police/Fire/Emergency	1
Municipal Wastewater Facilities	39	Other-Comm. Centers/Libraries	3
Municipal Water Supply Facilities	0		
Communication Facilities	0	TOTAL URBAN OPEN:	4,593
Other, Unknown	0	Subtotal-Extensive Outdoor	
TOTAL MILITARY:	337	Recreation:	1,539
Military Residential	0	Golf Courses	7
Military Hospital	333	Racetracks	0
Military Communications	0	Campgrounds and Other	1,532
Military Airport or Port	0	Cemeteries:	1
General Military	4	Parks:	886
Open Military Lands	0	Vacant--Cleared for Redevelopment:	50
Closed Military Facilities	0	Vacant--Undeveloped:	2,069
		Mixed Urban Open, Including Parks:	49

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Napa County		TOTAL LAND (in acres):		475,747
NOTE: Net Acres		2000 URBAN LAND (in acres):		34,802
		NON-URBAN LAND (in acres):		440,945
NON-URBAN LAND IN 2000				
		ACRES	ACRES	
TOTAL AGRICULTURE:	98,887	TOTAL FOREST LAND:	195,902	
Cropland and Pasture	9,291	Deciduous	35,579	
Orchards/Groves/Vineyards	88,580	Evergreen	92,871	
Greenhouses	0	Mixed Forest	67,451	
Confined Feeding	0			
Farmsteads and Inactive	1,016	TOTAL SPARSELY VEGETATED:	789	
		Beaches	0	
TOTAL RANGELAND:	137,760	Other Sand	0	
Herbaceous Range	83,866	Bare Rock	0	
Shrub and Brush	53,894	Mines/Quarries	706	
Mixed Range	0	Transitional--Landfills	0	
		Transitional--Other	0	
TOTAL WETLANDS [Based on		Transitional--Mixture	83	
U.S. Geological Survey Mapping]:	7,607	Mixed Sparsely Vegetated	0	
Forested	88			
Non-Forested	2,488			
Salt Evaporators	4,899			
Unknown	132			
Source: Association of Bay Area Governments				
December 2002				

JURISDICTION: San Francisco		TOTAL LAND (in acres):		29,216	
NOTE: Net Acres		2000 URBAN LAND (in acres):		29,188	
		NON-URBAN LAND (in acres):		28	
URBAN LAND IN 2000					
		ACRES	ACRES		
TOTAL RESIDENTIAL LAND			TOTAL COMMERCIAL/SERVICES		
[excluding mixed use]:		9,235	[excluding mixed use]:		2,756
1 unit/1-5 acre lot (Rural Residential)		0	Subtotal-Commercial:		2,095
1-3 units/acre (Not Mobile Home Parks)		0	Retail/Wholesale		651
3-8 units/acre (Not Mobile Home Parks)		10	Research/Office		424
>8 units/acre Multifamily, Group Quarters		9,225	Comm. Outdoor Recreation		231
Mobile Home Parks		0	Other, Mixture or Unknown		789
			Subtotal-Education:		248
TOTAL MIXED RESIDENTIAL/			Educational Offices and Day Care		0
COMMERCIAL:		761	Elementary/Secondary		37
Within a Land Area		0	Colleges/Universities		188
Within a Building		0	Stadium Facilities		0
Mixture of Above or Unknown		761	University Housing		23
TOTAL MIXED COMMERCIAL/			Subtotal-Hospitals and		
INDUSTRIAL:		636	Health Care Facilities:		263
			Trauma Center Hospitals		18
TOTAL INDUSTRIAL [excluding mixed]:		1,649	Community or Local Hospitals		245
Light Industrial		0	Surgery Centers		0
Heavy Industrial		0	State Prisons		0
Salvage/Recycling, Mixture or Unknown		1,503	State Mental Health Facilities		0
Food Processing, Warehousing		146	Clinics and Long-Term Care		0
			Subtotal-Public Institutions:		151
TOTAL MAJOR INFRASTRUCTURE:		8,245	Convention Centers		11
Roads, Highway and Related Facilities		8,219	Sports Stadiums		83
Rail Stations, Yards and Related Facilities		5	Churches/Synagogues/Other		0
Airports		0	City Halls/County Administration		18
Ports		5	Local Jails		0
Power Facilities		17	Local Police/Fire/Emergency		7
Municipal Wastewater Facilities		0	Other-Comm. Centers/Libraries		32
Municipal Water Supply Facilities		0			
Communication Facilities		0	TOTAL URBAN OPEN:		5,236
Other, Unknown		0	Subtotal-Extensive Outdoor		
			Recreation:		726
TOTAL MILITARY:		672	Golf Courses		434
Military Residential		0	Racetracks		0
Military Hospital		88	Campgrounds and Other		293
Military Communications		0	Cemeteries:		56
Military Airport or Port		0	Parks:		4,139
General Military		0	Vacant--Cleared for Redevelopment:		116
Open Military Lands		0	Vacant--Undeveloped:		198
Closed Military Facilities		584	Mixed Urban Open, Including Parks:		0
Source: Association of Bay Area Governments					
December 2002					

JURISDICTION: San Francisco	TOTAL LAND (in acres):	29,216
NOTE: Net Acres	2000 URBAN LAND (in acres):	29,188
	NON-URBAN LAND (in acres):	28

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	0	TOTAL FOREST LAND:	0
Cropland and Pasture	0	Deciduous	0
Orchards/Groves/Vineyards	0	Evergreen	0
Greenhouses	0	Mixed Forest	0
Confined Feeding	0		
Farmsteads and Inactive	0	TOTAL SPARSELY VEGETATED:	19
		Beaches	17
TOTAL RANGELAND:	0	Other Sand	0
Herbaceous Range	0	Bare Rock	0
Shrub and Brush	0	Mines/Quarries	0
Mixed Range	0	Transitional--Landfills	0
		Transitional--Other	2
TOTAL WETLANDS [Based on		Transitional--Mixture	0
U.S. Geological Survey Mapping]:	9	Mixed Sparsely Vegetated	0
Forested	0		
Non-Forested	0		
Salt Evaporators	0		
Unknown	9		

Source: Association of Bay Area Governments
December 2002

JURISDICTION: San Mateo County	TOTAL LAND (in acres):	288,792
NOTE: Net Acres	2000 URBAN LAND (in acres):	104,258
	NON-URBAN LAND (in acres):	184,534

URBAN LAND IN 2000

	ACRES		ACRES
TOTAL RESIDENTIAL LAND		TOTAL COMMERCIAL/SERVICES	
[excluding mixed use]:	54,297	[excluding mixed use]:	9,553
1 unit/1-5 acre lot (Rural Residential)	23,667	Subtotal-Commercial:	4,917
1-3 units/acre (Not Mobile Home Parks)	7,420	Retail/Wholesale	2,492
3-8 units/acre (Not Mobile Home Parks)	13,832	Research/Office	1,973
> 8 units/acre Multifamily, Group Quarters	9,073	Comm. Outdoor Recreation	222
Mobile Home Parks	305	Other, Mixture or Unknown	229
		Subtotal-Education:	3,969
TOTAL MIXED RESIDENTIAL/		Educational Offices and Day Care	34
COMMERCIAL:	172	Elementary/Secondary	2,444
Within a Land Area	24	Colleges/Universities	1,491
Within a Building	0	Stadium Facilities	0
Mixture of Above or Unknown	147	University Housing	0
TOTAL MIXED COMMERCIAL/		Subtotal-Hospitals and	
INDUSTRIAL:	1,822	Health Care Facilities:	134
		Trauma Center Hospitals	19
TOTAL INDUSTRIAL [excluding mixed]:	3,659	Community or Local Hospitals	92
Light Industrial	1,250	Surgery Centers	0
Heavy Industrial	477	State Prisons	0
Salvage/Recycling, Mixture or Unknown	17	State Mental Health Facilities	23
Food Processing, Warehousing	1,916	Clinics and Long-Term Care	0
		Subtotal-Public Institutions:	533
TOTAL MAJOR INFRASTRUCTURE:	27,146	Convention Centers	0
Roads, Highway and Related Facilities	22,330	Sports Stadiums	56
Rail Stations, Yards and Related Facilities	190	Churches/Synagogues/Other	428
Airports	3,428	City Halls/County Administration	23
Ports	606	Local Jails	8
Power Facilities	122	Local Police/Fire/Emergency	6
Municipal Wastewater Facilities	95	Other-Comm. Centers/Libraries	13
Municipal Water Supply Facilities	83		
Communication Facilities	0	TOTAL URBAN OPEN:	7,491
Other, Unknown	293	Subtotal-Extensive Outdoor	
		Recreation:	3,444
TOTAL MILITARY:	118	Golf Courses	2,619
Military Residential	0	Racetracks	190
Military Hospital	83	Campgrounds and Other	636
Military Communications	0	Cemeteries:	1,003
Military Airport or Port	0	Parks:	1,164
General Military	35	Vacant--Cleared for Redevelopment:	45
Open Military Lands	0	Vacant--Undeveloped:	1,626
Closed Military Facilities	0	Mixed Urban Open, Including Parks:	209

Source: Association of Bay Area Governments
December 2002

JURISDICTION: San Mateo County	TOTAL LAND (in acres):	288,792
NOTE: Net Acres	2000 URBAN LAND (in acres):	104,258
	NON-URBAN LAND (in acres):	184,534

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	13,578	TOTAL FOREST LAND:	90,993
Cropland and Pasture	12,459	Deciduous	2,988
Orchards/Groves/Vineyards	472	Evergreen	74,055
Greenhouses	152	Mixed Forest	13,949
Confined Feeding	0		
Farmsteads and Inactive	495	TOTAL SPARSELY VEGETATED:	2,482
		Beaches	1,458
TOTAL RANGELAND:	70,729	Other Sand	98
Herbaceous Range	43,532	Bare Rock	46
Shrub and Brush	22,681	Mines/Quarries	362
Mixed Range	4,517	Transitional--Landfills	46
		Transitional--Other	431
TOTAL WETLANDS [Based on		Transitional--Mixture	39
U.S. Geological Survey Mapping]:	6,752	Mixed Sparsely Vegetated	2
Forested	70		
Non-Forested	1,832		
Salt Evaporators	4,850		
Unknown	0		

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Santa Clara County		TOTAL LAND (in acres):	820,009
NOTE: Gross, NOT Net, Acres		2000 URBAN LAND (in acres):	199,118
		NON-URBAN LAND (in acres):	620,891
URBAN LAND IN 2000			
		ACRES	ACRES
TOTAL RESIDENTIAL LAND			
[excluding mixed use]:	117,599	TOTAL COMMERCIAL/SERVICES	
1 unit/1-5 acre lot (Rural Residential)	5,786	[excluding mixed use]:	23,070
1-3 units/acre (Not Mobile Home Parks)	6,414	Subtotal-Commercial:	14,150
3-8 units/acre (Not Mobile Home Parks)	103,098	Retail/Wholesale	1,586
>8 units/acre Multifamily, Group Quarters	895	Research/Office	2,126
Mobile Home Parks	1,406	Comm. Outdoor Recreation	296
		Other, Mixture or Unknown	10,142
		Subtotal-Education:	7,570
TOTAL MIXED RESIDENTIAL/		Educational Offices and Day Care	50
COMMERCIAL:	794	Elementary/Secondary	5,844
Within a Land Area	21	Colleges/Universities	1,419
Within a Building	0	Stadium Facilities	111
Mixture of Above or Unknown	773	University Housing	146
TOTAL MIXED COMMERCIAL/		Subtotal-Hospitals and	
INDUSTRIAL:	3,930	Health Care Facilities:	587
		Trauma Center Hospitals	54
TOTAL INDUSTRIAL [excluding mixed]:	14,281	Community or Local Hospitals	241
Light Industrial	8,741	Surgery Centers	0
Heavy Industrial	941	State Prisons	0
Salvage/Recycling, Mixture or Unknown	4,599	State Mental Health Facilities	292
Food Processing, Warehousing	0	Clinics and Long-Term Care	0
		Subtotal-Public Institutions:	763
TOTAL MAJOR INFRASTRUCTURE:	10,928	Convention Centers	45
Roads, Highway and Related Facilities	8,923	Sports Stadiums	19
Rail Stations, Yards and Related Facilities	187	Churches/Synagogues/Other	158
Airports	929	City Halls/County Administration	48
Ports	0	Local Jails	94
Power Facilities	49	Local Police/Fire/Emergency	20
Municipal Wastewater Facilities	778	Other-Comm. Centers/Libraries	379
Municipal Water Supply Facilities	63		
Communication Facilities	0	TOTAL URBAN OPEN:	26,916
Other, Unknown	0	Subtotal-Extensive Outdoor	
		Recreation:	2,737
TOTAL MILITARY:	1,601	Golf Courses	1,811
Military Residential	0	Racetracks	35
Military Hospital	105	Campgrounds and Other	890
Military Communications	0	Cemeteries:	366
Military Airport or Port	0	Parks:	14,123
General Military	198	Vacant--Cleared for Redevelopment:	558
Open Military Lands	0	Vacant--Undeveloped:	4,852
Closed Military Facilities	1,298	Mixed Urban Open, Including Parks:	4,282
Source: Association of Bay Area Governments			
December 2002			

JURISDICTION: Santa Clara County	TOTAL LAND (in acres):	820,009
NOTE: Gross, NOT Net, Acres	2000 URBAN LAND (in acres):	199,118
	NON-URBAN LAND (in acres):	620,891

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	36,700	TOTAL FOREST LAND:	261,808
Cropland and Pasture	15,116	Deciduous	61,273
Orchards/Groves/Vineyards	21,584	Evergreen	98,842
Greenhouses	0	Mixed Forest	101,693
Confined Feeding	0		
Farmsteads and Inactive	0	TOTAL SPARSELY VEGETATED:	2,795
		Beaches	0
TOTAL RANGELAND:	308,397	Other Sand	0
Herbaceous Range	233,415	Bare Rock	424
Shrub and Brush	73,253	Mines/Quarries	1,527
Mixed Range	1,729	Transitional--Landfills	7
		Transitional--Other	0
TOTAL WETLANDS [Based on		Transitional--Mixture	838
U.S. Geological Survey Mapping]:	11,190	Mixed Sparsely Vegetated	0
Forested	1		
Non-Forested	977		
Salt Evaporators	9,912		
Unknown	300		

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Solano County	TOTAL LAND (in acres):	517,867
NOTE: Mix Net/Gross Acres	2000 URBAN LAND (in acres):	98,472
	NON-URBAN LAND (in acres):	419,395

URBAN LAND IN 2000

	ACRES		ACRES
TOTAL RESIDENTIAL LAND		TOTAL COMMERCIAL/SERVICES	
[excluding mixed use]:	42,161	[excluding mixed use]:	8,018
1 unit/1-5 acre lot (Rural Residential)	23,167	Subtotal-Commercial:	4,099
1-3 units/acre (Not Mobile Home Parks)	2,264	Retail/Wholesale	3,734
3-8 units/acre (Not Mobile Home Parks)	15,111	Research/Office	0
>8 units/acre Multifamily, Group Quarters	1,265	Comm. Outdoor Recreation	275
Mobile Home Parks	354	Other, Mixture or Unknown	91
		Subtotal-Education:	1,854
TOTAL MIXED RESIDENTIAL/		Educational Offices and Day Care	190
COMMERCIAL:	82	Elementary/Secondary	790
Within a Land Area	13	Colleges/Universities	871
Within a Building	69	Stadium Facilities	4
Mixture of Above or Unknown	0	University Housing	0
TOTAL MIXED COMMERCIAL/		Subtotal-Hospitals and	
INDUSTRIAL:	0	Health Care Facilities:	616
		Trauma Center Hospitals	0
TOTAL INDUSTRIAL [excluding mixed]:	5,204	Community or Local Hospitals	131
Light Industrial	4,071	Surgery Centers	0
Heavy Industrial	1,129	State Prisons	452
Salvage/Recycling, Mixture or Unknown	0	State Mental Health Facilities	33
Food Processing, Warehousing	4	Clinics and Long-Term Care	0
		Subtotal-Public Institutions:	1,449
TOTAL MAJOR INFRASTRUCTURE:	22,629	Convention Centers	0
Roads, Highway and Related Facilities	21,189	Sports Stadiums	0
Rail Stations, Yards and Related Facilities	1,135	Churches/Synagogues/Other	0
Airports	256	City Halls/County Administration	697
Ports	15	Local Jails	0
Power Facilities	0	Local Police/Fire/Emergency	2
Municipal Wastewater Facilities	0	Other-Comm. Centers/Libraries	750
Municipal Water Supply Facilities	34		
Communication Facilities	0	TOTAL URBAN OPEN:	11,179
Other, Unknown	0	Subtotal-Extensive Outdoor	
		Recreation:	1,920
TOTAL MILITARY:	9,200	Golf Courses	1,619
Military Residential	331	Racetracks	0
Military Hospital	25	Campgrounds and Other	300
Military Communications	1,641	Cemeteries:	200
Military Airport or Port	2,610	Parks:	2,606
General Military	2,903	Vacant--Cleared for Redevelopment:	1,381
Open Military Lands	26	Vacant--Undeveloped:	4,974
Closed Military Facilities	3,306	Mixed Urban Open, Including Parks:	99

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Solano County	TOTAL LAND (in acres):	517,867
NOTE: Mix Net/Gross Acres	2000 URBAN LAND (in acres):	98,472
	NON-URBAN LAND (in acres):	419,395

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	289,191	TOTAL FOREST LAND:	31,900
Cropland and Pasture	265,600	Deciduous	2,513
Orchards/Groves/Vineyards	23,591	Evergreen	2,188
Greenhouses	0	Mixed Forest	27,199
Confined Feeding	0		
Farmsteads and Inactive	0	TOTAL SPARSELY VEGETATED:	163
		Beaches	0
TOTAL RANGELAND:	57,061	Other Sand	0
Herbaceous Range	53,925	Bare Rock	0
Shrub and Brush	3,015	Mines/Quarries	163
Mixed Range	121	Transitional--Landfills	0
		Transitional--Other	0
TOTAL WETLANDS [Based on		Transitional--Mixture	0
U.S. Geological Survey Mapping]:	41,079	Mixed Sparsely Vegetated	0
Forested	571		
Non-Forested	40,508		
Salt Evaporators	0		
Unknown	0		

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Sonoma County	TOTAL LAND (in acres):	1,001,805
NOTE: Mix Net/Gross Acres	2000 URBAN LAND (in acres):	200,307
	NON-URBAN LAND (in acres):	801,498

URBAN LAND IN 2000

	ACRES		ACRES
TOTAL RESIDENTIAL LAND		TOTAL COMMERCIAL/SERVICES	
[excluding mixed use]:	140,542	[excluding mixed use]:	16,012
1 unit/1-5 acre lot (Rural Residential)	116,162	Subtotal-Commercial:	9,563
1-3 units/acre (Not Mobile Home Parks)	11,442	Retail/Wholesale	6,124
3-8 units/acre (Not Mobile Home Parks)	8,105	Research/Office	2,118
> 8 units/acre Multifamily, Group Quarters	4,355	Comm. Outdoor Recreation	336
Mobile Home Parks	479	Other, Mixture or Unknown	985
		Subtotal-Education:	3,134
TOTAL MIXED RESIDENTIAL/		Educational Offices and Day Care	247
COMMERCIAL:	116	Elementary/Secondary	1,754
Within a Land Area	0	Colleges/Universities	1,134
Within a Building	116	Stadium Facilities	0
Mixture of Above or Unknown	0	University Housing	0
TOTAL MIXED COMMERCIAL/		Subtotal-Hospitals and	
INDUSTRIAL:	0	Health Care Facilities:	1,800
		Trauma Center Hospitals	182
TOTAL INDUSTRIAL [excluding mixed]:	13,551	Community or Local Hospitals	2
Light Industrial	2,253	Surgery Centers	0
Heavy Industrial	4,084	State Prisons	0
Salvage/Recycling, Mixture or Unknown	4	State Mental Health Facilities	1,503
Food Processing, Warehousing	7,210	Clinics and Long-Term Care	113
		Subtotal-Public Institutions:	1,515
TOTAL MAJOR INFRASTRUCTURE:	13,012	Convention Centers	0
Roads, Highway and Related Facilities	10,687	Sports Stadiums	0
Rail Stations, Yards and Related Facilities	0	Churches/Synagogues/Other	491
Airports	1,315	City Halls/County Administration	519
Ports	23	Local Jails	0
Power Facilities	3	Local Police/Fire/Emergency	14
Municipal Wastewater Facilities	95	Other-Comm. Centers/Libraries	492
Municipal Water Supply Facilities	437		
Communication Facilities	105	TOTAL URBAN OPEN:	13,216
Other, Unknown	348	Subtotal-Extensive Outdoor	
		Recreation:	1,135
TOTAL MILITARY:	3,858	Golf Courses	718
Military Residential	0	Racetracks	90
Military Hospital	0	Campgrounds and Other	327
Military Communications	0	Cemeteries:	355
Military Airport or Port	0	Parks:	5,325
General Military	840	Vacant--Cleared for Redevelopment:	344
Open Military Lands	3,018	Vacant--Undeveloped:	6,043
Closed Military Facilities	0	Mixed Urban Open, Including Parks:	14

Source: Association of Bay Area Governments
December 2002

JURISDICTION: Sonoma County	TOTAL LAND (in acres):	1,001,805
NOTE: Mix Net/Gross Acres	2000 URBAN LAND (in acres):	200,307
	NON-URBAN LAND (in acres):	801,498

NON-URBAN LAND IN 2000

	ACRES		ACRES
TOTAL AGRICULTURE:	413,245	TOTAL FOREST LAND:	187,175
Cropland and Pasture	331,994	Deciduous	8,925
Orchards/Groves/Vineyards	79,217	Evergreen	47,641
Greenhouses	0	Mixed Forest	130,608
Confined Feeding	1,343		
Farmsteads and Inactive	693	TOTAL SPARSELY VEGETATED:	492
		Beaches	10
TOTAL RANGELAND:	198,067	Other Sand	0
Herbaceous Range	46,742	Bare Rock	0
Shrub and Brush	142,587	Mines/Quarries	113
Mixed Range	8,739	Transitional--Landfills	0
		Transitional--Other	0
TOTAL WETLANDS [Based on		Transitional--Mixture	0
U.S. Geological Survey Mapping]:	2,520	Mixed Sparsely Vegetated	368
Forested	28		
Non-Forested	2,491		
Salt Evaporators	0		
Unknown	0		

Source: Association of Bay Area Governments
December 2002

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